

Abstract of the Disclosure

A system is provided that uses identity-based encryption (IBE) to support secure communications. Messages from a sender may be encrypted using an IBE
5 public key and IBE public parameter information associated with a recipient. The recipient may decrypt IBE-encrypted messages from the sender using an IBE private key. A host having a service name may be used to store the IBE public parameter information. The
10 sender may use a service name generation rule to generate the service name based on the IBE public key of the recipient. The sender may use the service name to obtain the IBE public parameter information from the host.